

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently amended): A cosmetic preparation comprising a cationic polymer which is produced by the process comprising:

polymerizing in a polymerization vessel from 3 to 30% by weight of at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) and/or a direct preproduct (a2) thereof ~~in the presence of~~

~~from 70 to 97% by weight of at least one polyether-comprising compound (b),~~

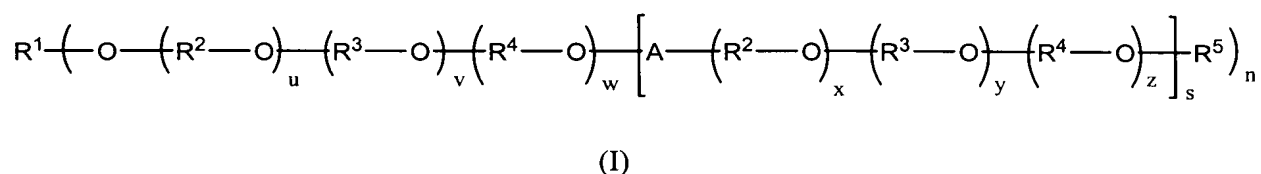
from 0 to 15% by weight of one or more first additional free-radically polymerizable monomer (c) having a solubility in water above 60 g/l at 25°C and

from 0 to 15% by weight of one or more second additional free-radically polymerizable monomer (d) having a solubility in water of less than 60 g/l at 25°C,

in the presence of from 70 to 97% by weight of at least one polyether-comprising compound (b),

wherein

the polyether-comprising compound (b) is represented by the formula I,



wherein

R¹ is independently selected from the group consisting of hydrogen, C₁-C₂₄-alkyl, R⁶-C(=O)-, R⁶-NH-C(=O)-, and polyalcohol radical;

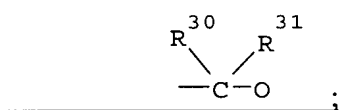
R⁵ is independently selected from the group consisting of hydrogen, C₁-C₂₄-alkyl, R⁶-C(=O)-, and R⁶-NH-C(=O)-;

R² to R⁴ are independently selected from the group consisting of $-(CH_2)_2-$, $-(CH_2)_3-$, $-(CH_2)_4-$, $-CH_2-CH(R^6)-$, and $-CH_2-CHOR^7-CH_2-$;

R⁶ is C₁-C₂₄-alkyl;

R⁷ is independently selected from the group consisting of hydrogen, C₁-C₂₄-alkyl, R⁶-C(=O)-, and R⁶-NH-C(=O)-;

A is selected from the group consisting of $-C(=O)-O-$, $-C(=O)-B-$, $C(=O)-O-$, $-CH_2-CH(-OH)-B-CH(-OH)-CH_2-O-$, $-C(=O)-NH-B-NH-C(=O)-O-$, and



B is selected from the group consisting of $-(CH_2)_t-$, substituted arylene and unsubstituted arylene;

R³⁰, R³¹ are independently selected from the group consisting of hydrogen, C₁-C₂₄-alkyl, C₁-C₂₄-hydroxyalkyl, benzyl and phenyl;

n is 1 when R¹ is not a polyalcohol radical or

n is 1 to 1 000 when R¹ is a polyalcohol radical

s is 0 to 1 000;

t is 1 to 12;

u is 1 to 5 000;

v is 0 to 5 000;

w is 0 to 5 000;

x is 0 to 5 000;

y is 0 to 5 000; and

z is 0 to 5 000;

the water content in the reaction mixture during the polymerization is less than 20% by weight;

if the polymerization vessel comprises the preproduct (a2), said preproduct (a2) is converted at least partially into a compound comprising quaternary nitrogen (a2') subsequently to or during said polymerizing;

the molar ratio of the sum of the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1), the compound comprising quaternary nitrogen (a2') and the one or more first additional free-radically polymerizable monomer (c) to the sum of the one or more second additional free-radically polymerizable monomer (d) is at least 2 to 1; and

the percentages by weight of the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) and/or a direct preproduct (a2) thereof, the at least one polyether-comprising compound (b), the one or more first additional free-radically polymerizable monomer (c) and the one or more second additional free-radically polymerizable monomer (d) add up in each case to 100% by weight.

Claim 2 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) and/or the compound comprising quaternary nitrogen (a2') is selected from the group consisting of quaternary vinylamines, N,N,N-trialkylaminoalkyl acrylates and methacrylates, N,N,N-trialkylaminoalkylacrylamides and -methacrylamides, 3-alkyl-1-vinylimidazoles, 3-aryl-1-vinylimidazoles, quaternary vinylpyridines and quaternary diallylamines, the salts thereof and mixtures thereof.

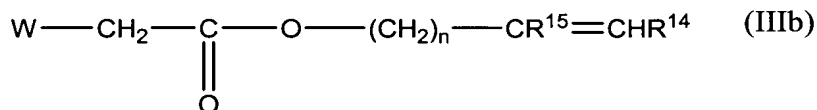
Claim 3 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the at least one quaternary nitrogen-comprising free-radically polymerizable

monomer (a1) and/or the compound comprising quaternary nitrogen (a2') is selected from the group consisting of

a) quaternary vinylamines represented by formula (IIIa),



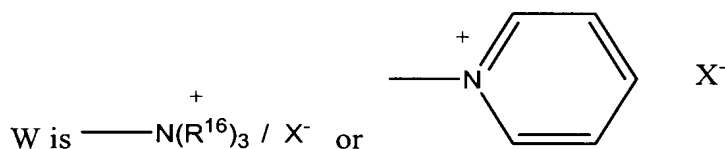
quaternary vinylamines represented by formula (IIIb),



wherein

R^{14} and R^{15} are independently selected from the group consisting of hydrogen, C_1 - C_8 linear- or branched-chain alkyl, methoxy, ethoxy, 2-hydroxyethoxy, 2-methoxyethoxy and 2-ethoxyethyl,

n is 0, 1 or 2,

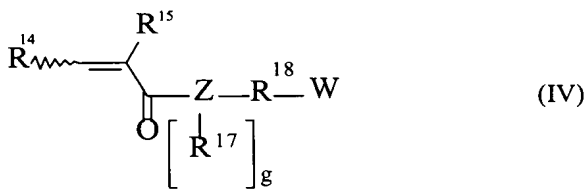


R^{16} is selected to be identical or different from the group consisting of C_1 - C_{40} linear- or branched-chain alkyl radicals, formyl, C_1 - C_{10} linear- or branched-chain acyl, N,N-dimethylaminoethyl, 2-hydroxyethyl, 2-methoxyethyl, 2-ethoxyethyl, hydroxypropyl, methoxypropyl, ethoxypropyl and benzyl, and

X^- is an anion,

b) N,N,N-trialkylaminoalkyl (meth)acrylates,

N,N,N-trialkylaminoalkyl(meth)acrylamides represented by formula (IV)



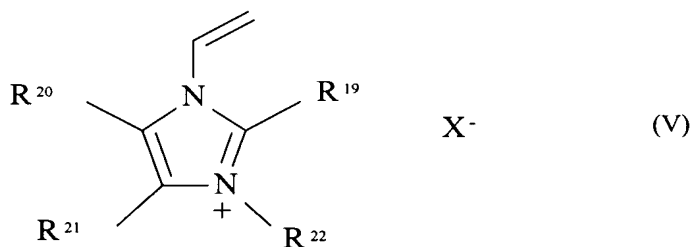
wherein

R^{17} = hydrogen or methyl,

R^{18} = alkylene or hydroxyalkylene having 1 to 24 carbon atoms, and

Z = nitrogen when $g = 1$ or oxygen when $g = 0$,

c) quaternary N-vinylimidazoles represented by formula (V)



wherein

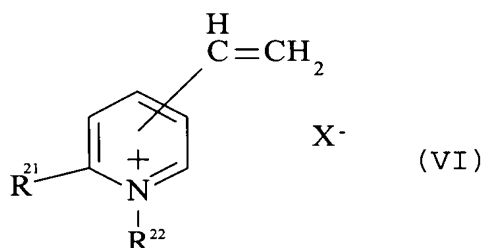
R^{19} , R^{20} and R^{21} are independently selected from the group consisting of hydrogen,

C₁-C₄-alkyl, C₁-C₄-hydroxyalkyl and phenyl;

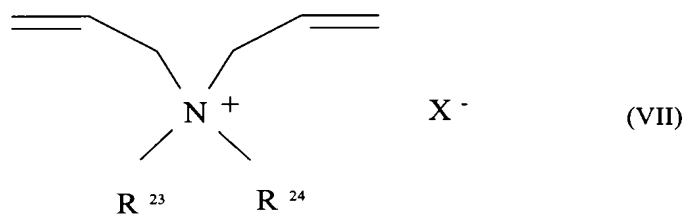
R²² is C₁-C₄-alkyl, C₁-C₄-hydroxyalkyl or phenyl;

and X^- is an anion,

d) quaternary vinylpyridines represented by formula (VI) and



e) quaternary diallylamines represented by formula (VII)



wherein R²³ and R²⁴ are independently C₁– to C₂₄–alkyl.

Claim 4 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) and/or the compound comprising quaternary nitrogen (a2') is selected from the group consisting of N,N,N-trimethylaminomethyl (meth)acrylate, N,N,N-triethylaminomethyl (meth)acrylate, N,N,N-trimethylaminoethyl (meth)acrylate, N,N,N-triethylaminoethyl (meth)acrylate, N,N,N-trimethylaminobutyl (meth)acrylate, N,N,N-triethylaminobutyl (meth)acrylate, N,N,N-trimethylaminohexyl (meth)acrylate, N,N,N-trimethylaminooctyl (meth)acrylate, N,N,N-trimethylaminododecyl (meth)acrylate, N-[3-(trimethylamino)propyl]methacrylamide and N-[3-(trimethylamino)propyl]acrylamide, N-[3-(dimethylamino)butyl]methacrylamide, N-[8-(trimethylamino)octyl]methacrylamide, N-[12-(trimethylamino)dodecyl]methacrylamide, N-[3-(triethylamino)propyl]methacrylamide and N-[3-(triethylamino)propyl]acrylamide, (meth)acryloyloxyhydroxypropyltrimethylamine, (meth)acryloyloxyhydroxypropyltriethylamine, 3-methyl-1-vinylimidazole and N,N-dimethyl-N,N-diallylamine.

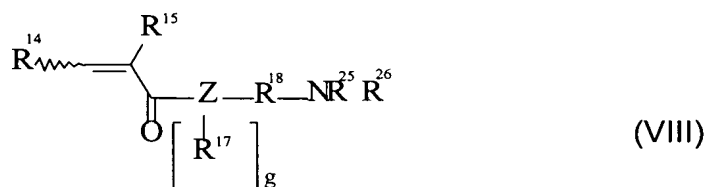
Claim 5 (Withdrawn-Currently amended): The cosmetic preparation as claimed in claim 1, wherein ~~said polymerization vessel~~ the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) comprises a mixture of 3-methyl-1-vinylimidazolium methylsulfate and N,N-dimethyl-N,N-diallylammonium chloride ~~as the at~~

~~least one quaternary nitrogen comprising free radically polymerizable monomer (a1).~~

Claim 6 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the direct preproduct (a2) is selected from the group consisting of free-radically polymerizable unsaturated primary, secondary and tertiary amines, unsaturated acids and unsaturated halides.

Claim 7 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the direct preproduct (a2) is an amine selected from the group consisting of

a) aminoalkyl acrylates, aminoalkyl methacrylates, aminoalkylacrylamides and aminoalkylmethacrylamides represented by formula (VIII)



wherein

R¹⁴ and R¹⁵ are independently selected from the group consisting of hydrogen, C₁-C₈ linear- or branched-chain alkyl, methoxy, ethoxy, 2-hydroxyethoxy, 2-methoxyethoxy and 2-ethoxyethyl,

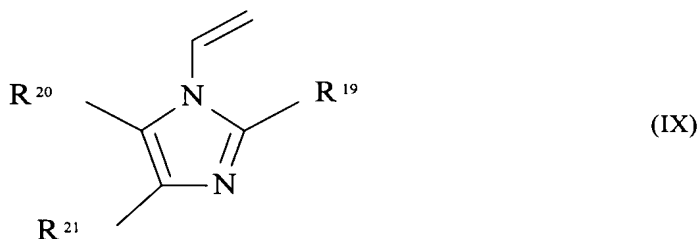
R^{16} is selected to be identical or different from the group consisting of C_1 - C_{40} linear- or branched-chain alkyl radicals, formyl, C_1 - C_{10} linear- or branched-chain acyl, N,N-dimethylaminoethyl, 2-hydroxyethyl, 2-methoxyethyl, 2-ethoxyethyl, hydroxypropyl, methoxypropyl, ethoxypropyl and benzyl,

R¹⁷ is hydrogen or methyl,

R¹⁸ is alkylene or hydroxyalkylene having 1 to 24 carbon atoms,

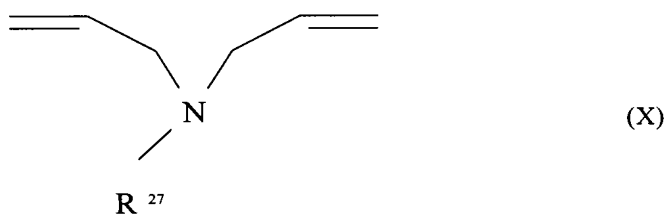
and R^{25} and R^{26} are independently selected from the group consisting of hydrogen, C_1 - C_{40} linear- or branched-chain alkyl, formyl, C_1 - C_{10} linear- or branched-chain acyl, N,N-dimethylaminoethyl, 2-hydroxyethyl, 2-methoxyethyl, 2-ethoxyethyl, hydroxypropyl, methoxypropyl, ethoxypropyl and benzyl,

b) N-vinylimidazoles represented by formula IX,



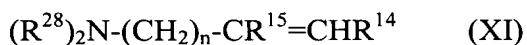
wherein R^{19} , R^{20} and R^{21} are independently selected from the group consisting of hydrogen, C_1 - C_4 -alkyl, C_1 - C_4 -hydroxyalkyl and phenyl;

c) diallylamines represented by formula (X)



wherein R^{27} = hydrogen or C_1 - to C_{24} -alkyl,

d) 1,3-divinylimidazolid-2-one, N-disubstituted vinylamines represented by formula (XI):



wherein R^{28} is selected from the group consisting of hydrogen C_1 - C_{40} linear- or branched-chain alkyl radicals, formyl, C_1 - C_{10} linear- or branched-chain acyl, N,N-dimethylaminoethyl, 2-hydroxyethyl, 2-methoxyethyl, 2-ethoxyethyl, hydroxypropyl, methoxypropyl, ethoxypropyl and benzyl, and

when $n=0$, R^{28} are not both hydrogen at the same time.

Claim 8 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the direct_preproduct (a2) is selected from the group consisting of N,N-dimethylaminoethyl methacrylate, N-[3-(dimethylamino)propyl]methacrylamide, N-methylaminoethyl methacrylate, N-[3-(methylamino)propyl]methacrylamide, aminoethyl methacrylate and N-[3-aminopropyl]methacrylamide, N-vinylimidazole, 1-vinyl-2-methylvinylimidazole and N,N-diallylamine.

Claim 9 (Previously presented): The cosmetic preparation as claimed in claim 6, wherein said conversion of the preproduct (a2) to the compound comprising quaternary nitrogen (a2') occurs in the presence of an alkyl halide having 1 to 24 carbon atoms, a dialkyl sulfate having 1 to 24 carbon atoms, an alkylene oxide or an epichlorohydrin.

Claim 10 (Withdrawn-Currently amended): The cosmetic preparation as claimed in claim 6, where the preproduct (a2) is an unsaturated halide [[is]] selected from the group consisting of haloalkyl acrylates and haloalkyl methacrylates.

Claim 11 (Previously presented): The cosmetic preparation as claimed in claim 10, wherein said conversion of the preproduct (a2) to the compound comprising quaternary nitrogen (a2') occurs in the presence of a trialkylamine.

Claim 12 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the one or more first additional free-radically polymerizable monomer (c) is selected from the group consisting of N-vinyl lactams, N-vinylcarboxamides, hydroxyalkyl acrylates,

ethylenically unsaturated amides, vinylimidazoles, unsaturated acids and unsaturated amines.

Claim 13 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the one or more first additional free-radically polymerizable monomer (c) is selected from the group consisting of N-vinylpyrrolidone, N-vinylpiperidone, N-vinylcaprolactam, N-vinylformamide, N-ethyl-N-vinylacetamide or N-methyl-N-vinylacetamide, 2-hydroxyethyl acrylate, 2-hydroxyethyl methacrylate, 2-hydroxypropyl methacrylate, butanediol monoacrylate, acrylamide, methacrylamide, N-vinylimidazole, acrylic acid, maleic acid, methacrylic acid, 2-acrylamido-2-methylpropanesulfonic acid, dimethylaminoethyl acrylate and dimethylamino methacrylate.

Claim 14 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the one or more second additional free-radically polymerizable monomer (d) is selected from the group consisting of C₁-C₁₀-alkyl esters of monoethylenically unsaturated C₃-C₆-carboxylic acids, di-C₁-C₁₀-alkyl esters of ethylenically unsaturated dicarboxylic acids, hydrocarbons having at least one free-radically polymerizable carbon-carbon double bond, vinyl, vinylidene or allyl halides, vinyl, allyl and methallyl esters of C₁-C₄₀ linear, C₃-C₄₀ branched-chain or C₃-C₄₀ carbocyclic carboxylic acids of aliphatic, saturated and unsaturated nature, vinyl, allyl and methallyl ethers of linear or branched, aliphatic alcohols having 2 to 20 carbon atoms.

Claim 15 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the one or more second additional free-radically polymerizable monomer (d) is selected from the group consisting of methyl acrylate, ethyl acrylate, propyl acrylate, n-butyl acrylate, isobutyl acrylate, t-butyl acrylate, 2-ethylhexyl acrylate, decyl acrylate, methyl

methacrylate, ethyl methacrylate, propyl methacrylate, n-butyl methacrylate, isobutyl methacrylate, t-butyl methacrylate, 2-ethylhexyl methacrylate, decyl methacrylate, methyl ethacrylate, ethyl ethacrylate, n-butyl ethacrylate, isobutyl ethacrylate, t-butyl ethacrylate, 2-ethylhexyl ethacrylate, decyl ethacrylate, stearyl acrylate, stearyl (meth)acrylate, preferably styrene, alpha-methylstyrene, tert-butylstyrene, butadiene, isoprene, cyclohexadiene, ethylene, propylene, 1-butene, 2-butene, isobutylene, vinyltoluene, vinyl chloride, vinylidene chloride, allyl chloride, vinyl acetate, vinyl propionate, vinyl butyrate, vinyl valerate, vinyl hexanoate, vinyl 2-ethylhexanoate, vinyl decanoate, vinyl laurate, vinyl stearate, vinyl methyl ether, vinyl ethyl ether, vinyl dodecyl ether, vinyl hexadecyl ether, vinyl stearyl ether, acrylamidoglycolic acid, fumaric acid and crotonic acid.

Claim 16 (Canceled).

Claim 17 (Currently amended): The cosmetic preparation as claimed in claim [[16]]
1, wherein

the polyether-comprising compound (b) has an average molecular weight of from 500 to 50 000 (number-average)

R^1 is independently selected from the group consisting of hydrogen, C_1-C_6 -alkyl, $R^6-C(=O)-$, and $R^6-NH-C(=O)-$;

R^5 is independently selected from the group consisting of hydrogen, C_1-C_6 -alkyl, $R^6-C(=O)-$, and $R^6-NH-C(=O)-$;

R^2 to R^4 are $-(CH_2)_2-$, $-(CH_2)_3-$, $-(CH_2)_4-$, $-CH_2-CH(R^6)-$, and $-CH_2-CHOR^7-CH_2-$;

R^6 is C_1-C_6 -alkyl;

R^7 is independently selected from the group consisting of hydrogen, C_1-C_6 -alkyl, $R^6-C(=O)-$, and $R^6-NH-C(=O)-$;

n is 1;

s is 0;

u is 5 to 500;

v is 0 to 500; and

w is 0 to 500.

Claim 18 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein the polyether-comprising compound (b) is a polymer, copolymer or block copolymer of at least one compound selected from the group consisting of ethylene oxide and propylene oxide.

Claims 19-21 (Canceled).

Claim 22 (Previously presented): The cosmetic preparation as claimed in claim 1, wherein

the percentages by weight of the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1), the at least one polyether-comprising compound (b), the one or more first additional free-radically polymerizable monomer (c) and the one or more second additional free-radically polymerizable monomer (d) add up to 100% by weight.

Claim 23 (Currently amended): The cosmetic preparation as claimed in claim 1, wherein the cationic polymer is produced by polymerizing 4 – 12% by weight of

the at least one quaternary nitrogen-comprising free-radically polymerizable monomer a1) ~~is present from 4 — 12% by weight~~ in the presence of from 88 — 96% by weight of the at least one polyether-comprising compound b) ~~is present from 88 — 96% by weight~~

~~the one or more first additional free-radically polymerizable monomer c) is present from 0% by weight~~

~~the one or more second additional free-radically polymerizable monomer d) is present from 0% by weight~~

and the percentages by weight of the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) and the at least one polyether-comprising compound (b) add up to 100% by weight.

Claim 24 (Currently amended): A cationic polymer produced by the process comprising:

polymerizing in a polymerization vessel from 3 to 30% by weight of at least one cationic, quaternary, free-radically polymerizable monomer (a1) ~~in the presence of~~

~~from 70 to 97% by weight of at least one polyether-comprising compound (b);~~

from 0 to 15% by weight of one or more first additional free-radically polymerizable monomer (c) having a solubility in water above 60 g/l at 25°C and

from 0 to 15% by weight of one or more second additional free-radically polymerizable monomer (d) having a solubility in water below 60 g/l at 25°C,

in the presence of from 70 to 97% by weight of at least one polyether-comprising compound (b).

wherein the molar ratio of the sum of the at least one cationic, quaternary, free-radically polymerizable monomer (a1) and the one or more further free-radically

polymerizable monomer (c) to the sum of the one or more second additional free-radically polymerizable monomer (d) is at least 2 to 1,

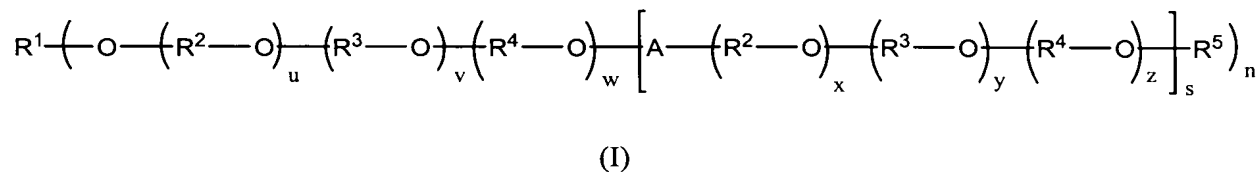
the water content in the reaction mixture during the polymerization is less than 20% by weight, and

the percentages by weight of the at least one cationic, quaternary, free-radically polymerizable monomer (a1), at least one polyether-comprising compound (b), the one or more further free-radically polymerizable monomer (c) and the one or more second additional free-radically polymerizable monomer (d) add up to 100% by weight.

Claim 25 (Currently amended): [[A]] The cationic polymer as claimed in claim 24, wherein

(i) the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1) is selected from the group consisting of quaternary vinylamines, N,N,N-trialkylaminoalkyl acrylates and methacrylates, N,N,N-trialkylaminoalkylacrylamides and -methacrylamides, 3-alkyl-1-vinylimidazoles, 3-aryl-1-vinylimidazoles, quaternary vinylpyridines and quaternary diallylamines, the salts thereof and mixtures thereof.

(ii) the polyether-comprising compound (b) is represented by formula I,



wherein

R^1 is independently selected from the group consisting of hydrogen, C_1 - C_{24} -alkyl, $\text{R}^6-\text{C}(=\text{O})-$, $\text{R}^6-\text{NH}-\text{C}(=\text{O})-$, and polyalcohol radical;

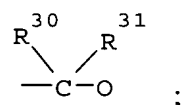
R^5 is independently selected from the group consisting of hydrogen, C_1 - C_{24} -alkyl, $R^6-C(=O)-$, and $R^6-NH-C(=O)-$;

R^2 to R^4 are independently selected from the group consisting of $-(CH_2)_2-$, $-(CH_2)_3-$, $-(CH_2)_4-$, $-CH_2-CH(R^6)-$, and $-CH_2-CHOR^7-CH_2-$;

R^6 is C_1 - C_{24} -alkyl;

R^7 is independently selected from the group consisting of hydrogen, C_1 - C_{24} -alkyl, $R^6-C(=O)-$, and $R^6-NH-C(=O)-$;

A is selected from the group consisting of $-C(=O)-O$, $-C(=O)-B-C(=O)-O$, $-CH_2-CH(-OH)-B-CH(-OH)-CH_2-O$, $-C(=O)-NH-B-NH-C(=O)-O$; and



B is selected from the group consisting of $-(CH_2)_t-$, substituted arylene and unsubstituted arylene;

R^{30} , R^{31} are independently selected from the group consisting of hydrogen, C_1 - C_{24} -alkyl, C_1 - C_{24} -hydroxyalkyl, benzyl and phenyl;

n is 1 when R^1 is not a polyalcohol radical or

n is 1 to 1 000 when R^1 is a polyalcohol radical

s is 0 to 1 000;

t is 1 to 12;

u is 1 to 5 000;

v is 0 to 5 000;

w is 0 to 5 000;

x is 0 to 5 000;

y is 0 to 5 000; and

z is 0 to 5 000; ~~or~~

~~the polyether comprising compound (b) is a polyether comprising silicone derivative;~~
~~or~~

~~the polyether comprising compound (b) is obtained by reacting polyethyleneimines with alkylene oxides; or~~

~~the polyether comprising compound (b) is obtained by polymerizing ethylenically unsaturated alkylene oxide comprising monomers and optionally at least one additional copolymerizable monomer;~~

iii) the one or more first additional free-radically polymerizable monomer (c) is selected from the group consisting of N-vinyl lactams, N-vinyl carboxamides, hydroxyalkyl acrylates, ethylenically unsaturated amides, vinylimidazoles, unsaturated acids and unsaturated amines; and

iv) the one or more second additional free-radically polymerizable monomer (d) is selected from the group consisting of C₁-C₁₀-alkyl esters of monoethylenically unsaturated C₃-C₆-carboxylic acids, di-C₁-C₁₀-alkyl esters of ethylenically unsaturated dicarboxylic acids, hydrocarbons having at least one free-radically polymerizable carbon-carbon double bond, vinyl, vinylidene or allyl halides, vinyl, allyl and methallyl esters of C₁-C₄₀ linear, C₃-C₄₀ branched-chain or C₃-C₄₀ carbocyclic carboxylic acids of aliphatic, saturated and unsaturated nature, vinyl, allyl and methallyl ethers of linear or branched, aliphatic alcohols having 2 to 20 carbon atoms.

Claim 26 (Currently amended): [[A]] The cationic polymer as claimed in claim 24, wherein the percentages by weight of the at least one quaternary nitrogen-comprising free-radically polymerizable monomer (a1), the at least one polyether-comprising compound (b), the one or more first additional free-radically polymerizable monomer (c) and the one or

more second additional free-radically polymerizable monomer (d) add up to 100% by weight.

Claim 27 (Previously presented): A process for the preparation of cationic polymers as claimed in claim 24, the process comprising:

polymerizing from 3 to 30% by weight of at least one cationic, quaternary free-radically polymerizable monomer (a1) in the presence of

from 70 to 97% by weight of at least one polyether-comprising compound (b)

from 0 to 15% by weight of one or more first additional free-radically polymerizable monomer (c) having a solubility in water of more than 60 g/l at 25°C and optionally

from 0 to 15% by weight of one or more second additional free-radically polymerizable monomer (d) having a solubility in water of less than 60 g/l at 25°C, wherein the molar ratio of the sum of the at least one cationic, quaternary free-radically polymerizable monomer (a1) and the one or more first additional free-radically polymerizable monomer (c) to the sum of the one or more second additional free-radically polymerizable monomer (d) is at least 2 to 1,

the water content in the reaction mixture during the polymerization is less than 20% by weight, and

the percentages by weight of the at least one cationic, quaternary free-radically polymerizable monomer(a1), the at least one polyether-comprising compound (b), the one or more first additional free-radically polymerizable monomer (c), and the one or more second additional free-radically polymerizable monomer (d) add up to 100% by weight.

Claim 28 (Previously presented): A hair cosmetic formulation comprising:

- a) 0.05 – 20% by weight of the cosmetic preparation as claimed in claim 1,
- b) 20 – 99.95% by weight of water and/or alcohol and
- c) 0 – 79.05% by weight of additional constituents.

Claim 29 (Previously presented): A hair cosmetic formulation comprising:

- a) 0.1 – 10% by weight of the cosmetic preparation as claimed in claim 1,
- b) 20 – 99.9% by weight of water and/or alcohol
- c) 0 – 70% by weight of a propellant and
- d) 0 – 20% by weight of additional constituents.

Claim 30 (Previously presented): A hair cosmetic formulation comprising:

- a) 0.1 – 10% by weight of the cosmetic preparation as claimed in claim 1,
- b) 55 – 94.8% by weight of water and/or alcohol
- c) 5 - 20% by weight of a propellant
- d) 0.1 - 5% by weight of an emulsifier and
- e) 0 – 10% by weight of additional constituents.

Claim 31 (Previously presented): A hair cosmetic formulation comprising:

- a) 0.1 – 10% by weight of the cosmetic preparation as claimed in claim 1,
- b) 60 – 99.85% by weight of water and/or alcohol
- c) 0.05 – 10% by weight of a gel former and
- d) 0 – 20% by weight of additional constituents.

Claim 32 (Previously presented): A hair cosmetic formulation comprising:

- a) 0.05 – 10% by weight of the cosmetic preparation as claimed in claim 1,
- b) 25 – 94.95% by weight of water
- c) 5 – 50% by weight of surfactants
- d) 0 – 5% by weight of a conditioning agent and
- e) 0 – 10% by weight of additional cosmetic constituents.